

WHAT IS CLAIMED IS:

1. An optical detector comprising:

a window material for transmitting light such as an infrared and an ultraviolet ray therethrough;

5 a sealed case whose opening portion is blocked with said window material;

detection elements being formed opposite to said window material in said sealed case;

10 optical filters disposed between said window material and said detection elements, which transmits only light composed of a predetermined band of wavelengths by thin optical films, each optical filter corresponding to each detection elements; and

15 a shielding body supporting said optical filters and preventing any light composed of other than the predetermined band of wavelength selected by said thin optical films and light producing an interference effect during measurement from being transmitted through said optical filters.

20 2. An optical detector as claimed in claim 1, wherein said shielding body includes housing portions for supporting said optical filters.

25 3. An optical detector as claimed in claim 1, wherein a surface of said shielding body is positioned higher than a surface of each of said optical filters.

4. An optical detector as claimed in claim 2, wherein a surface of said shielding body is positioned higher than a surface of each of said optical filters.

5 5. An optical detector as claimed in any one of claims 1 to 4, wherein said shielding body has an upper opening through which the light transmitted through said window material passes, a lower opening through which the light composed of the predetermined band of wavelength selected by said optical thin
10 films after the light transmitted through said window material passes through said upper opening, and a filter receiving portion for mounting said optical filters as part of the undersurface of each of said optical filters makes contact with said filter receiving portion in said lower opening.

15 6. An optical detector as claimed in any one of claims 1 to 4, wherein said shielding body is made of material which absorbs said light.

20 7. An optical detector as claimed in any one of claim 1 to 4, wherein a surface of said shielding body is processed by blackening for absorbing said light.

25 8. An optical detector as claimed in claim 5, wherein said shielding body is made of material which absorbs said light.

9. An optical detector as claimed in claim 5, wherein

a surface of said shielding body is processed by blackening
for absorbing said light.